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CLAIMS

1. An electric assembly (20, 50) comprising a transformer (30, 56) and a translucent electricity insulating permanent cover (31, 52) therefor, to transmit heat generated by the transformer outwardly.

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2. An assembly as claimed in claim 1 wherein the cover (31, 52) is transparent.

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3. An assembly as claimed in any one of the preceding claims wherein the transformer comprises a transparent bobbin (22) on which a core (23) for the transformer and transformer windings are provided.

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4. An assembly as claimed in any one of the preceding claims wherein the cover is in the form of a skin (38).

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5. An assembly as claimed in claim 4 wherein the skin (38) comprises a transparent outer shell (31) of a rigid material and a layer (37) of a transparent filling material provided between the shell and the transformer.

6. An assembly as claimed in claim 5 wherein the shell comprises first and second body halves (32, 34) fitted together to form the shell.

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7. An assembly as claimed in any one of claims 4 to 6 wherein the skin comprises outwardly extending protrusions (33), to provide a clearance between the skin and a surface on which the assembly is mounted in use.

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8. An assembly as claimed in any one of claims 1 to 3 wherein the cover comprises a plurality of pins (58) for mating with and making electrical contact with a conventional socket arrangement.

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9. An assembly as claimed in claim 8 wherein the transformer forms part of power supply circuitry (54), the power supply circuitry comprising a first output (66) which is accessible through the cover.

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10. An assembly as claimed in claim 9 wherein the power supply circuitry comprises a second output (68) which is in parallel with the first output and also accessible through the cover.

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11. An assembly as claimed in any one of claims 9 and 10 wherein the circuitry comprises a fuse (62) and the fuse is provided in a recess (60) in the cover.

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12. An assembly as claimed in claim 11 wherein the cover comprises a lid (64) for opening and closing the recess.

13. A method of forming an electric assembly, the method comprising the steps of:

- providing a transformer (30,56); and
- permanently enclosing the transformer in a translucent electricity insulating cover (31, 52) which, in use, transmits heat generated by the transformer.

14. A method as claimed in claim 13 wherein the transformer is enclosed by locating the transformer in a rigid transparent shell (31).

15. A method as claimed in claim 14 wherein the transformer is located by providing a rigid transparent shell (31) having a shape substantially the same as a general shape of the transformer; mounting the transformer (30) in the shell so that a small clearance is defined between substantially a whole of an outer surface of the transformer and the shell; and filling the clearance with a transparent electricity insulating material (37).